

Remote Sensing Applications Division (RSAD)

CDR Program Office

Weekly Report for Aug 22, 2014 Ed Kearns, Chief



OISST Research to Operations Project

Team Lead: Drew Saunders

Weekly Report - Aug 22, 2014

1 ISST - Optimum Interpolated Sea Surface Temperature

- Performing dry runs for the System Acceptance Test (SAT).
- Schedule is updated with ITB estimates.
- Updating Project Plan with FOC estimates.
- Draft OISST Transition to Operations Project Plan is being reviewed (ITB and OISST team).
- Successfully completed 30 day parallel test.
- Comparing NCDC GTS with NCEP ship/buoy data for use. GCAD is resolving issues but requires new operational code.
- AVHRR data for the 15 day delay product is available from CLASS.
- Running test data and code on Rainband for parallel test.

Risk Matrix

40

Probability of occurrence

20

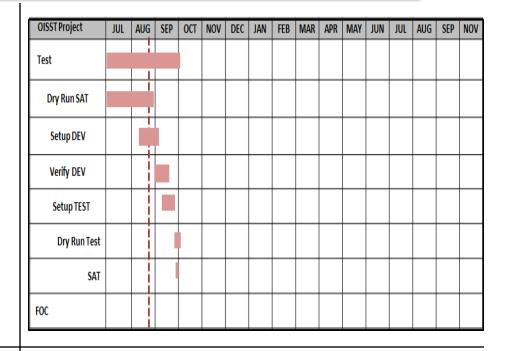
60

80

- GSTWG discussing inputs and production of preliminary OISST.
- Created a SOP for operational OISST.
- Completed refactoring of each component.
- · Conducted Technology Assessment Review.

Operations:

Consequence



Will not meet metric Significant delays Moderate Impact Slight sched deviation

100

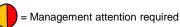
Risk and Mitigation

1 Time to progress through the three tier environment. ITB support is required.

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Minimal Impact

= Potential management action required



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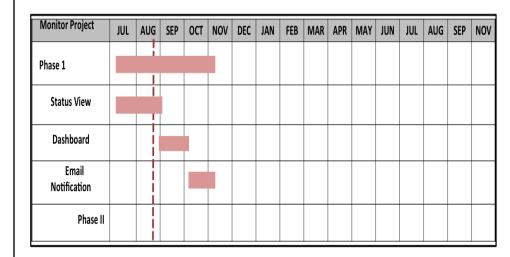
Pipeline Monitoring Tool

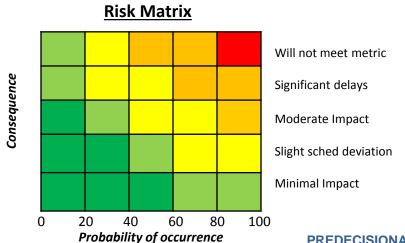
Team Lead: Linda Copley

Weekly Report - August 22, 2014

1 Operations Monitoring Tool development

- Designing module to collect status data from iRODS.
- · Working on database design.
- Defined requirements for Phase 1 of the project.
- Phase 1 implements basic functionality.
- Additional datasets can be added in later phases.
- Updated the monitoring project plan.
- Monitoring of operational ingest.





On-track

Risk and Mitigation

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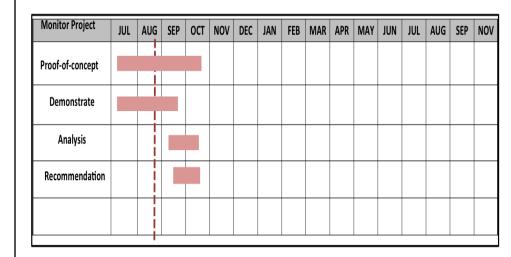
Federated Archive Search Tool (FAST)

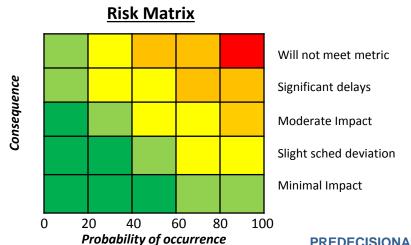
Team Lead: Linda Copley

Weekly Report – August 22, 2014

1 Federated Archive Search Tool proof-of-concept

- Connected all data to geographic and date references.
- Designed and loaded VIIRS catalog graph data.
- Designed and loaded Storm Events graph data.
- Loaded FIPS geographic data.
- Installed Neo4j graph database with spatial extension.





: On-track

Risk and Mitigation

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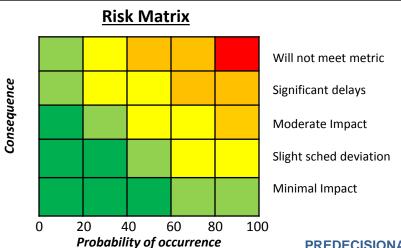
Reprocessing VIIRS SDRs

Team Lead: Jim Biard

Weekly Report – August 22, 2014

1 Operations Monitoring Tool development

- Contacting STAR scientist (Changyong Cao) to help identify possible parrallelization capability of VIIRS algorithms.
- Drafting Project Plan.
- Developed draft white paper to identify issues and scope.
- Have identified parts of the algorithm that need to 'conditioned' during runtime and will affect reprocessing estimates.
- Discussed scope and goals of the project with CDRP scientist.



On-track

Risk and Mitigation

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NOAA NEXRAD Reanalysis

Project Manager: B. Nelson

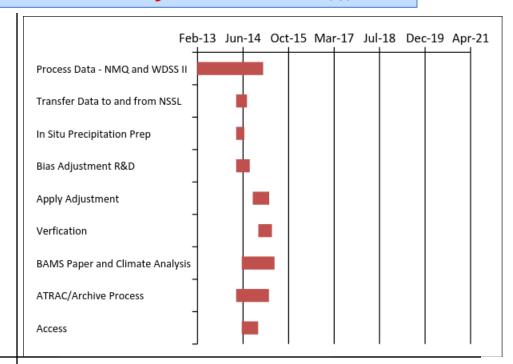
Weekly Report

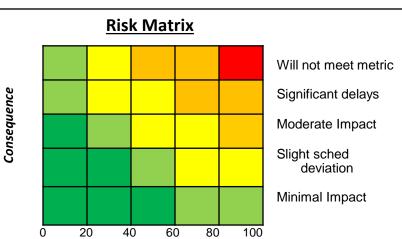
NNR - NOAA NEXRAD Reanalysis

- •Level II data for 2012 is being transferred.
- Ordered Level II data for 2012, 2005, 2003
- •Processed 4 yrs of data for COOP-NNReanalysis data.
- Obtained COOP, HADS, and CRN data and process gauge –radar pairs for analysis.
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- Testing phase of IDW scheme for multi-sensor estimation.
- Obtained all data to fill in full period of record (2000-2011) for radar only product and severe weather data from NSSL
- Loaded data to send back to NSSL
- Present Project Overview to Stewardship Council

Probability of occurrence

- Process 2007 (Severe Weather and Hydro)
- Obtain 2001 data from NCDC archive





Risk and Mitigation

No Risk at this time

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= Potential management action required





ISCCP Processing @ NCDC

Project Manager: A. Young/K. Knapp

Weekly Status Update

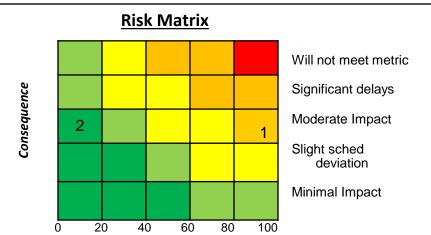
- Continuing to preprocess data.
- Ordering replacement data from EUMETSAT
- Sent beta data to users for feedback.
- Preparing ancillary calibration data for processing.
- Working on ISCCP Website for NCDC
- Preparing data for Beta users (preliminary output)
- Prepared space and scripts for ISCCP processing on CICS server.
- Received pre-processing software to QC input files (GEO/B1 & LEO/AVHRR)

Objectives

Produce ISCCP cloud products at NCDC following IOC R2O procedures. Plan for routine updates to follow.

Schedule

Start Date 1983? 2003? 2013?
Begin processing September 2014
End processing December 2014
QC & Analysis Jan-Feb 2015
Archive March 2015
Routine updates start June 2015



: On-track

Probability of occurrence

Risk and Mitigation

- Delivery of software late and other delays. Raised level to moderate impact. Processing will likely start 1 month late. Impact upon completion isn't yet clear.
- 2. CICS server space

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= Mar

8/7/2014

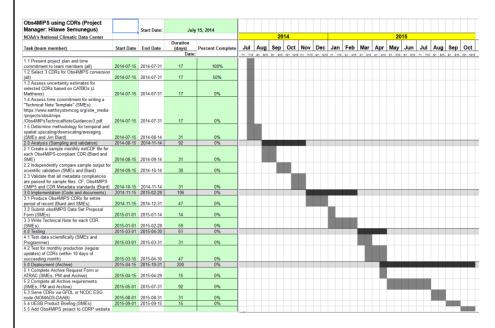


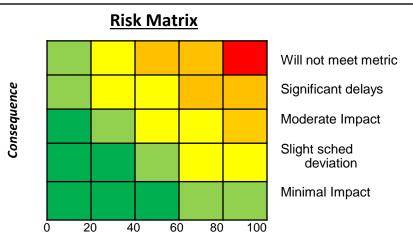
Obs4MIPS

Project Manager: H. Semunegus

Weekly Status Update

- J. Baird prototyped a conversion utility.
- Scoping out a potential third dataset for initial transition.
- Test data was converted to Obs4MIPS format.
- Planning meeting completed and schedule revised.
- Initial datasets selected for Obs4MIPS: OISST and OLR
- · Lots of emails and investigations ongoing.
- Many CDRs can't work in Obs4MIPS: all FCDRs and all Mean Layer Temperatures aren't fit for this purpose.
- Kickoff meeting held 7/18
- Initial plans developed.





Probability of occurrence

Risk and Mitigation

TBD

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= Potential management action required





UW HIRS Processing @ NCDC

Project Manager: A. Young

Weekly Status Update

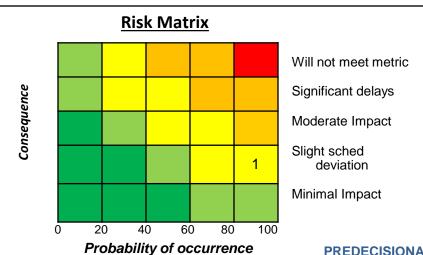
- Found space to temporarily store 10 TB of 10 yrs of product.
- Waiting for final code delivery from Wisconsin.
- Preparing plan for processing on CICS server.
- Working on finding space for the 10TB of input data (pixel level cloud data).

Objectives

Produce global total precipitable water and cloud top pressure estimates from HIRS data using the UW algorithm (P. Menzel).

Schedule

Start Date TBDEnd Date TBD



Risk and Mitigation

1. Programmer was assigned to another task. Impact: Schedule may slip.

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= Potential management action required





Albedo of the Americas

Project Manager: J. Matthews

Weekly Status Update

- No change.
- Loaned 42 TB of disk space allocation to ISCCP Project

Objectives

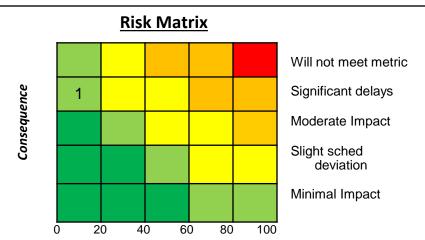
Produce a daily land surface albedo product over North and South America from GOES-GVAR observations for 1995-2014.

Schedule

- Start Date
- End Date

January 2015

June 2016



Risk and Mitigation

- 1. Loaned disk space is not returned
 - * Could cause delays. Unlikely since more disk space is planned.

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= Potential management action required



Probability of occurrence